

Title (en)  
VEHICLE BRAKE APPARATUS

Title (de)  
FAHRZEUGBREMSVORRICHTUNG

Title (fr)  
APPAREIL DE FREINAGE POUR VÉHICULE

Publication  
**EP 2891587 A1 20150708 (EN)**

Application  
**EP 12883619 A 20120831**

Priority  
JP 2012072120 W 20120831

Abstract (en)  
A holding valve (61) is provided on each of individual flow passages (51) for connecting a main flow passage (52) connected to an accumulator (32) of a power hydraulic pressure generation device (30) and each of wheel cylinders (42). The holding valve (61) permits, in an open state, communication between an upstream side and a downstream side so as to transmit a hydraulic pressure from the accumulator (32) to the wheel cylinder (42), and shuts off, in a closed state, the communication between the upstream side and the downstream side. One-way valves (CV1, CV2) each for permitting only communication from the downstream side to the upstream side to decrease the hydraulic pressure in the wheel cylinder (42) are respectively provided in parallel with holding valves (61 RR, 61 RL), among the holding valves (61), provided for a right-and-left-wheel side brake system configured so that a hydraulic pressure on the main flow passage (52) side (upstream side) to which the hydraulic pressure is transmitted from the accumulator (32) is always equal to or more than a hydraulic pressure on the wheel cylinder (42) side (downstream side).

IPC 8 full level  
**B60T 8/17** (2006.01); **B60T 8/48** (2006.01); **B60T 17/22** (2006.01)

CPC (source: CN EP US)  
**B60T 7/042** (2013.01 - CN EP US); **B60T 8/4081** (2013.01 - CN EP US); **B60T 13/142** (2013.01 - US); **B60T 13/146** (2013.01 - CN EP US); **B60T 13/662** (2013.01 - CN EP US); **B60T 13/686** (2013.01 - CN EP US); **B60T 2270/604** (2013.01 - EP US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2891587 A1 20150708**; **EP 2891587 A4 20150826**; CN 104602980 A 20150506; JP 5787125 B2 20150930; JP WO2014033899 A1 20160808; US 2015158476 A1 20150611; WO 2014033899 A1 20140306

DOCDB simple family (application)  
**EP 12883619 A 20120831**; CN 201280075551 A 20120831; JP 2012072120 W 20120831; JP 2014532670 A 20120831; US 201214417921 A 20120831